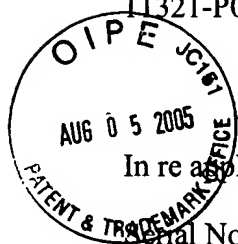


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11321-P034D1

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Smalley, et al.

Serial No.: 10/755,490

Filing Date: January 12, 2004

Art Unit: 1762

Title: *Polymer-Wrapped Single Wall Carbon Nanotubes*

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Applicant hereby submits the following references in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of the references cited in the attached PTO/SB/08A are not enclosed nor required; copies of the referenced cited in the attached PTO/SB/08B are enclosed for the examiner's reference. Furthermore, pursuant to 37 C.F.R. § 1.97(g) and (h), no representation is made that this is material to patentability of the present application or that a search has been made.

Applicant hereby submits that claims of Applicant's referenced patent application are patentably distinguishable from these references.

A filing fee of \$180.00 is enclosed. Applicant does not believe any other fees are required at this time; if other fees are necessary, the Director of Patents and Trademarks is hereby authorized to charge any fees relating to this Supplemental Information Disclosure Statement

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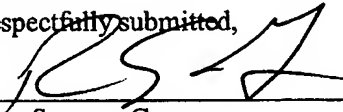
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under 37 CFR § 1.17 to Deposit Account No 23-2426 of WINSTEAD SECHREST & MINICK  
P.C. (referencing matter 11321-P034D1).

Dated:

8/3/05

Respectfully submitted,



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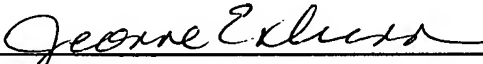
ATTORNEY FOR APPLICANT

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 6

**Complete if Known**

Application Number	10/755,490
Filing Date	January 12, 2004
First Named Inventor	Smalley, et al.
Art Unit	1762
Examiner Name	E. Tsoy
Attorney Docket Number	11321-P034D1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6,183,714	02/06/01	Smalley, et al.	
		US- 6,250,984	06/26/01	Jin, et al.	
		US- 6,322,713	11/27/01	Choi, et al.	
		US- 6,623,337	09/23/03	Scott, et al.	
		US- 6,630,772	10/07/03	Bower, et al.	
		US- 6,712,864	03/30/04	Horiuchi, et al.	
		US- 6,749,712	06/15/04	Kuper	
		US- 2003/0075682	04/24/03	Colbert, et al.	
		US- 60/284,419		Hauge, et al.	
		US- 60/268,228		Smalley, et al.	
		US- 60/227,184		Kuper	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO 00/17102	03/30/00	Smalley, et al.		
		WO 00/17101	03/30/00	Margrave, et al.		
		WO 00/26138	05/11/00	Smalley, et al.		
		WO 98/39250	09/11/98	Smalley, et al.		

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		First Named Inventor	Smalley, et al.		
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		Examiner Name	E. Tsoy		
Sheet	2	of	6	Attorney Docket Number	11321-P034D1

NON PATENT LITERATURE DOCUMENTS				
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		Ajayan et al., "Growth morphologies during cobalt catalyzed single-shell carbon nanotube synthesis," 215 Chem. Phys. Lett. (1993), pp. 509-517		
		Ausman, et al., "Organic solvent dispersions of single-walled carbon nanotubes: toward solutions of pristine nanotubes", 104 J. Phys. Chem. B (2000). pp. 8911		
		Bethune et al., "Cobalt catalyzed growth of carbon nanotubes with single atomic layer walls," 63 Nature (1993), pp. 605-607		
		Boul, et al., "Reversible sidewall functionalization of bucktubes", 310 Chem. Phys. Lett. (1999), pp. 367-372		
		Chen, J. et al., "Solution properties of single-walled carbon nanotubes", 282 Science (1998), pp. 95-98		
		Ding, et al., "Direct observation of polymer sheathing in carbon nanotube-polycarbonate composites", Vol. 3 Nanoletters, No. 11 (2003), pp. 1593-1597		
		Dresselhaus, G. et al., "Science of Fullerenes and Carbon Nanotubes", Chap. 19, (1996), pp. 756-760		
		Ebbesen et al., "Large-scale synthesis of carbon nanotubes," 358 Nature (July 16, 1992), pp. 220-222		
		Ebbesen et al., "Carbon nanotubes," 24 Annual Review of Materials Science, (1994), pp. 235-264		
		Girifalco, et al., "Carbon nanotubes, buckyballs, ropes, and a universal graphitic potential", 62 Physical Review B (2000), pp. 13104-13110		

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		Filing Date	January 12, 2004		
		First Named Inventor	Smalley, et al.		
		Art Unit	1762		
		Examiner Name	E. Tsoy		
Sheet	3	of	6	Attorney Docket Number	11321-P034D1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Hertel et al., "Manipulation of individual carbon nanotubes and their interaction with surfaces", 102 J. Phys. Chem. B, (1998), pp. 910-915	
		Hone, et al., "Electrical and thermal transport properties of magnetically aligned single wall carbon nanotube films", 77 Appl. Phys. Lett. (2000), pp. 666-668	
		Iijima et al., "Helical microtubules of graphitic carbon," 354 Nature (November 7, 1991), pp. 56-58	
		Iijima et al., "Single-shell carbon nanotubes of 1 nm diameter," 363 Nature (1993), pp.603-605	
		Jing-Kong et al., "Nanotube Molecular Wires as Chemical Sensors" 287 Science (2000), pp. 622	
		Kearns, et al., "Polypropylene fibers reinforced with carbon nanotubes", 86 J. Appl. Polymer Sci. (2002), pp. 2079-84	
		Kumar, et al. "Synthesis Structure and Properties of PBO/SWNT Composites", 35 Macromolecules (2002), pp. 9039-43	
		Lagarkov, et al. "Electromagnetic properties of composites containing elongated conducting inclusions", 53 Phys. Rev. B 10 (1996), pp. 6318-6336	
		Lambert et al., "Improving conditions toward isolating single-shell carbon nanotubes," 266 Chem. Phys. Lett. (1994), pp. 364-371	
		Lee et al. "Observation of magnetic-field-modulated energy gap in carbon nanotubes", 115 Solid State Communications (2000), pp. 467-471	

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		Examiner Name	E. Tsoy		
Sheet	4	of	6	Attorney Docket Number	11321-P034D1

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		Liu, et al., "Controlled deposition of individual single-walled carbon nanotubes on chemically functionalized templates", 303 Chem. Phys. Lett. (1999), pp. 125-129	
		Mamedov, et al., "Molecular design of strong single-wall carbon nanotube/polyelectrolyte multilayer composites", 1 Nature Materials (2002), pp. 190-194	
		Nikolaev, et al., "Gas-phase catalytic growth of single-walled carbon nanotubes from carbon monoxide", 313 Chem. Phys. Lett. (1999), pp. 91-97	
		Odom et al, "Structure and electronic properties of carbon nanotubes", 104 J. Phys. Chem B (2000), pp. 2794-2809	
		Rinzler, et al., "Large-scale purification of single-wall carbon nanotubes: process, product and characterization," 67 Applied Physics A, (1998), pp. 29-37	
		Saito et al., "Carbon nanocapsules encaging metals and carbides," 54 J. Phys. Chem. Solids (1993), pp. 1849-1860	
		Saito et al., "Extrusion of single-wall carbon nanotubes via formation of small particles condensed near an evaporation source," 236 Chem. Phys. Lett. (1995), pp. 419-426	
		Schulte, "Carbon nanotube polymer composites", Polymers & Composites Section, Lauven (10/02/03)	
		Seraphin et al., "Single-walled tubes and encapsulation of nanocrystals into carbon clusters," 142 Electrochem. Soc. 1 (1995), pp. 290-293	
		Shaffer et al., "Fabrication and characterization of carbon nanotube/poly(vinyl alcohol) composites", 11 Adv. Mat. 11 (1999), pp. 937-941	

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		Shi, et al., "Plasma coating of carbon nanofibers for enhanced dispersion and interfacial bonding in polymer composites", 83 Appl. Phys. Lett. 25 (2003), pp. 5301-3	
		Slepyan et al., "Electronic and electromagnetic properties of nanotubes", 57 Phys. Rev. B 16 (1998), pp. 9485-9497	
		Smith, et al., "Structural anisotropy of magneticall aligned single wall carbon nanotube films", 77 Appl. Phys. Lett. 5 (2000), pp. 663-665	
		Sreekmar, et al., "Polyacrylonitrile single-walled carbon nanotube composite fibers", 16 Adv. Mater. 1 (2004), pp. 58-61	
		Tans, et al., "Individual single-wall carbon nanotubes as quantum wires", 386 Nature (1997), pp. 474-477	
		Venema, et al., "Imaging electron wave functions of quantized energy levels in carbon nanotubes", 283 Science (1999), pp. 52-55	
		Woo, et al., "Hole blocking in carbon nanotube-polymer composite...", 77 Appl. Phys. Lett. 9 (2000), pp. 1393-95	
		Yakobson and Smalley, "Fullerene nanotubes: C1,000,000 and beyond", 85 Am. Sci. (1997), pp. 324-337	
		Zhou et al., "Single-walled carbon nanotubes growing radially From YC2 particles," 65 Appl. Phys. Lett. (1994), pp.1593-1595	
		Riggs, et al., "Strong luminescence of solubilized carbon nanotubes", 122 J. Am. Chem. Soc. (2000), pp. 5879-5880	

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